Sensor Loop With Distributed Power Sources And Method Therefor

Abstract Of The Disclosure

A fail-safe electrical control system in the form of a sensor loop (24) is provided. The sensor loop (24) includes any number of sensor units (22) coupled in series. Each sensor unit (22) includes a local power source (26), a local sensor (14), and a local indicator controller (30). The local power source (26), local sensor (14), and local indicator controller (30) are coupled in series within the sensor unit (22) and the sensor loop (24) to form a closed circuit (40) that does not require a central controller or the performance of loop configuration activities. The local power sources (26) distributed throughout the sensor loop (24) within the sensor units (22) are all isolated from the earth. In one preferred embodiment, the sensor loop (24) controls the movement of solar collectors (12) into wind stow positions when high wind (16) conditions occur.